

Japanese Application No. 2003-128594

Applicant: NIPPON SHOKUBAI CO., LTD.

Application Number: 2003-128594

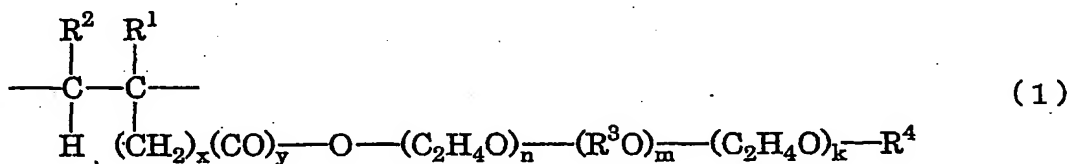
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Title of the invention: CEMENT ADMIXTURE

Abstract:

To provide a cement admixture capable of improving the water-reducing ability of cement compositions and the like and enhancing the strength and durability of hardening products-produced therefrom and further capable of adjusting the viscosity of such compositions so as to facilitate the works at the sites of handling the same.

A cement admixture comprising a polycarboxylic acid polymer, wherein said polycarboxylic acid polymer has a site represented by the following formula(1):

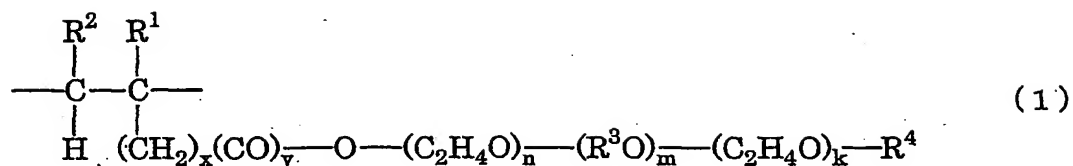


(wherein R^1 and R^2 may be the same or different and each represents a hydrogen atom or a methyl group; R^3 may be the same or different and represents an alkylene group containing 3 to 18 carbon atoms; x represents a number of 0 to 2; y represents 0 or 1; n and k represent an average molar number of addition of an oxyethylene group, in which n is a number of 1 to 200 and k is a number of 1 to 200; m represents an average molar number of addition of the oxyalkylene group and is a number of 1 to 50; $n+m+k$ is a number of 3 to 200; and R^4 represents a hydrogen atom or a hydrocarbon group containing 1 to 20 carbon atoms).

Claims:

1. A cement admixture comprising a polycarboxylic acid polymer, wherein said polycarboxylic acid polymer has a site represented

by the following formula(1):



(wherein R^1 and R^2 may be the same or different and each represents a hydrogen atom or a methyl group; R^3 may be the same or different and represents an alkylene group containing 3 to 18 carbon atoms; x represents a number of 0 to 2; y represents 0 or 1; n and k represent an average molar number of addition of an oxyethylene group, in which n is a number of 1 to 200 and k is a number of 1 to 200; m represents an average molar number of addition of the oxyalkylene group and is a number of 1 to 50; $n+m+k$ is a number of 3 to 200; and R^4 represents a hydrogen atom or a hydrocarbon group containing 1 to 20 carbon atoms).